Appl. No. 10/568,990 Amdt. Dated December 28, 2007 Reply to Advisory action of October 11, 2007

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An arc welding control unit comprising a heat radiating unit

built in a box body of the arc welding control unit for discharging air heated by a heat generating first electrical element to an outside of the arc welding control unit, wherein the

beat radiating unit has a tunnel shape including an outer peripheral portion for defining a

cavity portion allowing air to flow therethrough.

wherein the heat radiating unit includes two or more rows of cavity portions, the cavity

portions being separated by one or more dividers such that the cavity portions are separated

into substantially individualized compartments.

Claim 2 (previously presented): The arc welding control unit as set forth in Claim 1, wherein

the heat radiating unit has a substantially cuboid shape including a side surface portion and a

top surface portion for defining the cavity portion.

Claim 3 (previously presented): The arc welding control unit as set forth in Claim 1, wherein

the heat radiating unit has two openings respectively formed in two side end portions of the

cavity portion allowing the air to flow therethrough.

Claim 4 (previously presented): The arc welding control unit as set forth in Claim 3, wherein

the box body of the arc welding control unit includes two air flow holes in two side end

portions formed in mutually facing surfaces and the heat radiating unit is disposed such that

the two openings formed in the two side end portions thereof respectively face the mutually

facing surfaces of the box body so that the openings of the heat radiating unit are respectively

engaged with the air flow holes of the box body of the arc welding control unit.

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Claim 5 (previously presented): The arc welding control unit as set forth in Claim 1, wherein the heat radiating unit mounts the heat generating first electrical element on at least part of

the outer peripheral portion defining the cavity portion.

Claim 6 (previously presented): The arc welding control unit as set forth in Claim 5, wherein

the heat generating first electrical element includes a heat sink having a heat radiating fin,

and the heat radiating fin is exposed to the inside of the cavity portion through which the air

flows.

Claim 7 (previously presented): The arc welding control unit as set forth in Claim 3, wherein,

in one of the two openings, there is provided a fan for forcing air existing in the cavity

portion to flow through the cavity portion.

Claim 8 (previously presented): The arc welding control unit as set forth in Claim 7, wherein

the fan is mounted on the opening of the heat radiating unit.

Claim 9 (previously presented): The arc welding control unit as set forth in Claim 7, wherein

the fan is mounted on an air flow hole portion formed in the box body for allowing air to

flow therethrough.

Claim 10 (previously presented): The arc welding control unit as set forth in Claim 1,

wherein the heat radiating unit includes two or more first electrical elements on the outer

peripheral portion defining the cavity portion.

Claim 11 (canceled)

Claim 12 (previously presented): The arc welding control unit as set forth in Claim 1,

wherein the heat radiating unit includes fans respectively disposed in every cavity portion

formed in two or more rows

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Claim 13 (previously presented): The arc welding control unit as set forth in Claim 1, wherein the heat radiating unit allows air of different first electrical elements in every cavity portion to flow.

Claim 14 (previously presented): The arc welding control unit as set forth in Claim 1, wherein the first electrical element includes an electrical element used in an inverter circuit arranged in the arc welding control unit.

Claim 15 (previously presented): The arc welding control unit as set forth in Claim 14, wherein the first electrical element includes a power transistor.

Claim 16 (previously presented): The arc welding control unit as set forth in Claim 1, wherein the first electrical element includes a rectify diode.

Claim 17 (previously presented): The arc welding control unit as set forth in Claim 1, wherein, in the cavity portion, there is disposed a heat generating second electrical element.

Claim 18 (previously presented): The arc welding control unit as set forth in Claim 17, wherein the second electrical element includes a reactor.

Claim 19 (previously presented): The arc welding control unit as set forth in Claim 17, wherein the second electrical element includes a transformer.